

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

MANGU KANG, ET AL.

Application No.:

Filed:

For: **dye-sensitized solar cells including liquid
type imidazolium electrolyte**

Art Group:

Examiner:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In accordance with the duty of disclosure, enclosed is a copy of IDS Citation Form PTO/SB/08 or PTO-1449, together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). This IDS and IDS Citation Form are being submitted concurrently with the Utility Application. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Date: _____

4/15/09

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP


Eric S. Hyman, Reg. No. 30,139

12400 Wilshire Boulevard, 7th Floor
Los Angeles, CA 90025
Telephone: (310) 207-3800

Based on PTO/SB/08A (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wtr) 08/11/2003.

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Information Disclosure Statement

New U.S. Patent Application for
DYE-SENSITIZED SOLAR CELLS
INCLUDING LIQUID TYPE IMIDAZOLIUM ELECTROLYTE
Our Ref. No.: P03EB024/US/jy

Reference No.:

- (1) KR Laid-Open No. 2003-65957
- (2) KR Laid-Open No. 2003-32538
- (3) KR Laid-Open No. 2002-78291
- (4) US Patent No. 6,245,988
- (5) US Patent No. 4,927,721
- (6) US Patent No. 5,728,487
- (7) JP Laid-Open No. 2001-160426
- (8) JP Laid-Open No. 2001-160427

- (9) A low-cost high-efficiency solar cell based on dye-sensitized colloidal TiO_2 films (*Nature*, Vol. 353, No. 24, October 1991, Pages 737-739)

- (10) Hydrophobic, Highly Conductive Ambient-Temperature Molten Salts (*Inorg. Chem.* Vol. 35, 1996, Pages 1168-1178)

- (11) Nanocrystalline Titanium Oxide Electrodes for Photovoltaic Applications (*J. Am. Ceram. Soc.* Vol. 80, No. 12, 1997, Pages 3157-3171)

- (12) Influence of Electrolytes on the photovoltaic performance of organic dye-sensitized nanocrystalline TiO_2 solar cells
(*Solar Energy Materials & Solar Cells*, Vol. 70, 2001, Pages 151-161)